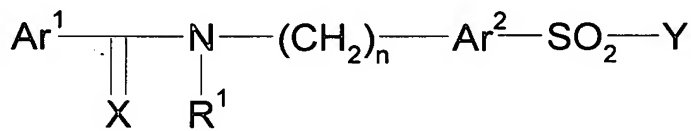


IN THE CLAIMS

214 1 (Original). Sulfonamide derivatives according to formula I



I

with its geometrical isomers, in an optically active form as enantiomers, diastereomers, as well as in the form of racemates, as well as pharmaceutically acceptable salts thereof, wherein

Ar¹ and Ar² are independently from each other substituted or unsubstituted aryl or heteroaryl groups,

X is O or S, preferably O;

R¹ is hydrogen or a C₁-C₆-alkyl group, or R¹ forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with Ar¹;

n is an integer from 0 to 5, preferably between 1-3 and most preferred 1;

Y within formula I is an unsubstituted or a substituted 4-12-membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide,

with the proviso that if Ar¹ is 4-chlorophenyl, X is O, R¹ is H, Ar² is thienyl, while Y is a piperazino group, L¹

*contd.
Q14*

shall not be diphenylmethyl, benzo[1,3]dioxol-5-yl-methyl, 4-methoxy phenyl, 2-hydroxyethyl, methyl, 4-chlorophenyl methyl, and if Y is a 3-methyl piperazino, L¹ shall not be 4-chlorophenyl methyl, and if Y is piperazino-3, 5-dione, L¹ shall not be 2-phenyl ethyl,

with the further proviso that if Ar¹ is 4-chlorophenyl, X is O, R¹ is H, Ar² is thienyl, while Y is a piperidino group with L¹ being H, L² shall not be 2-hydroxy ethyl;

with the further proviso that if Y is a piperidino- or a pyrrolidino group being substituted at the β -position of the piperidino- or a pyrrolidino nitrogen by a benzo[5, 6]cyclohepta[1, 2b]pyridine, or a benzo[5, 6]cyclohept (3,4) ene [1, 2b]pyridine, while Ar² is thienyl, X is oxygen, R¹ is hydrogen and n is 1, Ar¹ shall not be a phenyl group;

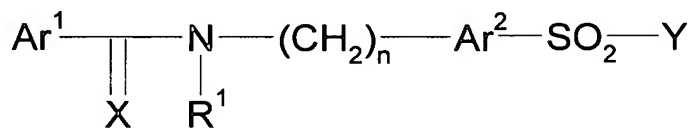
with the further proviso that if X is oxygen, R¹ is hydrogen and n is 1, while Y is a piperazine, said piperazine at the para-nitrogen shall not be substituted by a group containing a benzamidine or a protected form thereof;

with the further proviso that the compounds 2-{{2-(benzoylaminomethyl)-thiophene]-5-sulfonyl}-1,2,3,5,6,7-hexahydro-N,N-dipropylcyclopent[f]isoindol-6-amine and N-[[5-[[7-cyano-1,2,3,5-tetrahydro-1-(1H-imidazol-4-yl-methyl)-3-

contd.
Q¹⁴
(phenylmethyl)-4H-1,4-benzodiazepin-4-yl]sulfonyl]-2-thienyl]
methyl] benzamide and its hydrochloride are excluded;

with the final proviso that if X is oxygen and Y is
a 4-8 membered saturated cyclic alkyl containing one or two
nitrogen atoms, Y shall not be substituted by a group
(C=O)N(R,R') at the α -position of the sulfonamide nitrogen.

2 (Currently Amended). Sulfonamide derivatives
according to formula I



I

with its geometrical isomers, in an optically active form as
enantiomers, dia-stereomers, as well as in the form of
racemates, as well as pharmaceutically acceptable salts
thereof, wherein

Ar¹ and Ar² are independently from each other
substituted or unsubstituted aryl or heteroaryl groups,

X is O or S, preferably O;

R¹ is hydrogen or a C₁-C₆-alkyl group, or R¹ forms a
substituted or unsubstituted 5-6-membered saturated or
unsaturated ring with Ar¹;

n is an integer from 0 to 5, preferably between 1-3
and most preferred 1;

contd.
Q¹⁴

Y within formula I is an unsubstituted or a substituted 4-12-membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide, for use as a medicament;

with the proviso that if Y is a piperidino- or a pyrrolidino group being substituted at the β -position of the piperidino- or a pyrrolidino nitrogen by a benzo[5, 6]cyclohepta[1, 2b]pyridine, or a benzo[5, 6]cyclohept (3,4) ene [1, 2b]pyridine, while Ar² is thienyl, X is oxygen, R¹ is hydrogen and n is 1, Ar¹ shall not be a phenyl group;

with the further proviso that if X is oxygen, R¹ is hydrogen and n is 1, while Y is a piperazine, said piperazine at the para-nitrogen shall not be substituted by a group containing a benzamidine or a protected form thereof;

with the further proviso that the compounds 2-{{2-(benzoylaminomethyl)-thio-phenyl}-5-sulfonyl}-1,2,3,5,6,7-hexahydro-N,N-

dipropylcyclopent[f]isoindole~~dipropylecyanopent[f]isoindole~~-6-amine and N-[[5-[[7-cyano-1,2,3,5-tetrahydro-1-(1H-imidazol-4-yl-methyl)-3-(phenylmethyl)-4H-1,4-benzodiazepin-4-yl]sulfonyl]-2-thienyl] methyl] benz-amide and its hydrochloride are excluded;

contd.
Q¹⁴

with the final proviso that if X is oxygen and Y is a 4-8 membered saturated cyclic alkyl containing one or two nitrogen atoms, Y shall not be substituted by a group (C=O)N(R,R') at the α -position of the sulfonamide nitrogen.

3 (Original). A sulfonamide derivative according to claim 1 or 2, wherein Y is a piperazino- or piperidino group of the general formula



whereby, L^1 and L^2 are independently selected from each other from the group comprising or consisting of H, substituted or unsubstituted C_1 - C_6 -aliphatic alkyl, substituted or unsubstituted C_2 - C_6 -alkenyl, substituted or unsubstituted C_2 - C_6 -alkynyl, substituted or unsubstituted cyclic C_4 - C_8 -alkyl optionally containing 1-3 heteroatoms and optionally fused with aryl or heteroaryl; or L^1 and L^2 are independently selected from the group comprising or consisting of substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, aryl- C_1 - C_6 -alkyl, heteroaryl- C_1 - C_6 -alkyl, $-C(O)-OR^3$, $-C(O)-R^3$, $-C(O)-NR^{3'}R^3$, $-NR^{3'}R^3$, $-NR^{3'}C(O)R^3$, $-NR^{3'}C(O)NR^{3'}R^3$, $-(SO)R^3$, $-(SO_2)R^3$, $-NSO_2R^3$, $-SO_2NR^{3'}R^3$,

with R^3 , $R^{3'}$ being substituents independently selected from the group comprising or consisting of H,

contd.
Q 14
substituted or unsubstituted C₁-C₆-alkyl, substituted or unsubstituted C₂-C₆-alkenyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aryl-C₁-C₆-alkyl, substituted or unsubstituted heteroaryl-C₁-C₆-alkyl;

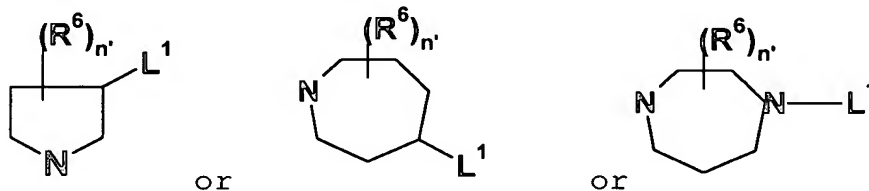
said aryl or heteroaryl groups being optionally substituted C₁-C₆-alkyl, C₁-C₆-alkoxy, C₂-C₆-alkenyl, C₂-C₆-alkynyl, amino, acylamino, aminocarbonyl, C₁-C₆-alkoxycarbonyl, aryl, carboxyl, cyano, halogen, hydroxy, nitro, sulfonyl, sulfoxy, C₁-C₆-thioalkoxy,

or L¹ and L² taken together form a 4-8-membered, substituted or unsubstituted saturated cyclic alkyl or heteroalkyl group; and

R⁶ is selected from the group comprising or consisting of hydrogen, substituted or unsubstituted C₁-C₆-alkyl, substituted or unsubstituted C₁-C₆-alkoxy, OH, halogen, nitro, cyano, sulfonyl, oxo (=O), and

n' is an integer from 0 to 4, preferably 1 or 2.

4 (Original). A sulfonamide derivative according to claim 1 or 2, wherein Y is a pyrrolidine, an azepan or a 1,4-diazepan moiety of the below formulas



contd.
Q¹⁴

wherein L^1 is selected from the group comprising or consisting of H, substituted or unsubstituted C_1 - C_6 -alkyl, substituted or unsubstituted C_2 - C_6 -alkenyl, substituted or unsubstituted C_2 - C_6 -alkynyl, substituted or unsubstituted cyclic C_4 - C_8 -alkyl optionally containing 1-3 heteroatoms and optionally fused with aryl or heteroaryl; or L^1 and L^2 are independently selected from the group comprising or consisting of substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, aryl- C_1 - C_6 -alkyl, heteroaryl- C_1 - C_6 -alkyl, $-C(O)-OR^3$, $-C(O)-R^3$, $-C(O)-NR^{3'}R^3$, $-NR^{3'}R^3$, $-NR^{3'}C(O)R^3$, $-NR^{3'}C(O)NR^{3'}R^3$, $-(SO)R^3$, $-(SO_2)R^3$, $-NSO_2R^3$, $-SO_2NR^{3'}R^3$;

R^3 and $R^{3'}$ are substituents independently selected from the group comprising or consisting of H, substituted or unsubstituted C_1 - C_6 -alkyl, substituted or unsubstituted C_2 - C_6 -alkenyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl, substituted or unsubstituted aryl- C_1 - C_6 -alkyl, substituted or unsubstituted heteroaryl- C_1 - C_6 -alkyl;

R^6 is selected from the group comprising or consisting of hydrogen, substituted or unsubstituted C_1 - C_6 -alkyl, substituted or unsubstituted C_1 - C_6 -alkoxy, OH, halogen, nitro, cyano, sulfonyl, oxo ($=O$), sulfoxy, acyloxy, thioalkoxy and n' is an integer from 0 to 4, preferably 0.

5 (Currently Amended). A sulfonamide derivative according to ~~any of the preceding claims~~ claim 1, wherein Ar^1

contd.
Q14

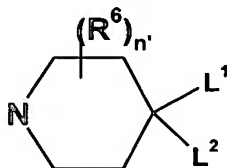
and Ar^2 are independently selected from the group comprising or consisting of phenyl, thienyl, furyl, pyridyl, optionally substituted by $\text{C}_1\text{-C}_6\text{-alkyl}$, preferably trihalomethyl, $\text{C}_1\text{-C}_6\text{-alkoxy}$, $\text{C}_2\text{-C}_6\text{-alkenyl}$, $\text{C}_2\text{-C}_6\text{-alkynyl}$, amino, acylamino, aminocarbonyl, $\text{C}_1\text{-C}_6\text{-alkoxycarbonyl}$, aryl, carboxyl, cyano, halogen, hydroxy, nitro, sulfonyl, $\text{C}_1\text{-C}_6\text{-thioalkoxy}$.

6 (Original). A sulfonamide derivative according to claim 5, wherein Ar^1 is an unsubstituted or substituted phenyl.

7 (Original). A sulfonamide derivative according to claim 5, wherein Ar^2 is an unsubstituted or substituted thienyl or furanyl group.

8 (Currently Amended). A sulfonamide derivative according to ~~any of the preceding claims~~ claim 1, wherein Ar^1 is selected from a 4-chlorophenyl, nitrophenyl, hydroxyphenyl, alkoxy phenyl, pyridyl, 3,4,-dihydroxyphenyl, thioxo-dihydropyridine or its tautomer, pyrazole and X is O, R^1 is hydrogen, n is 1, Ar^2 is thienyl or furanyl.

9 (Original). A sulfonamide derivative according to claim 8, wherein Y is



with $(\text{R}^6)_n$, L^1 and L^2 being as above defined.

control.
Q 14

10 (Original). A sulfonamide derivative according to claim 9, wherein R^6 is H, L^2 is H, L^1 is a 5-membered cyclic group containing 3 heteroatoms, preferably a triazole ring which is preferably fused with an unsubstituted or substituted aryl or heteroaryl; or L^1 is $-C(O)-R^3$, or $-NHR^3$;

with R^3 being a substituent selected from the group comprising or consisting of C_1 - C_{12} -alkyl, aryl, heteroaryl, aryl- C_1 - C_6 -alkyl, heteroaryl- C_1 - C_6 -alkyl;

said aryl or heteroaryl groups being optionally substituted by halogen, hydroxy, nitro, sulfonyl.

11 (Currently Amended). A sulfonamide derivative according to ~~any of the preceding claims~~ claim 1, selected from the ~~following group~~ consisting of:

4-chloro-N-[5-(piperazine-1-sulfonyl)-thiophen-2-yl-methyl]-benzamide;

4-Chloro-N-{5-[4-(3-trifluoromethanesulfonyl-phenylamino)-piperidine-1-sulfonyl]-thiophen-2-ylmethyl}-benzamide;

4-chloro-N-({5-[(4-pyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl)benzamide;

4-chloro-N-[(5-{[4-(4-fluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

contd.
Q 14

4-chloro-N-([5-([4-[4-(trifluoromethyl)phenyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(2-nitrophenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(4-nitrophenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(2-furoyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(4-hydroxyphenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(2-oxo-2-pyrrolidin-1-ylethyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(2-morpholin-4-yl-2-oxoethyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(pyridin-4-ylmethyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(2-thien-2-ylethyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(3,5-dimethoxyphenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(cyclohexylmethyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

contd.
A¹⁴

4-chloro-N-[(5-{[4-(2-methoxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-({5-[(4-benzylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(2-phenylethyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(4-fluorobenzyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2-cyanophenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-([4-[4-chloro-3-(trifluoromethyl)phenyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(3-piperidin-1-ylpropyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[(4-{4-chloro-2-nitrophenyl}piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(6-methylpyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[(4-hydroxy-4-phenylpiperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-({5-[(4-benzoylpiperidin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

contd.
Q 14

4-chloro-N-[(5-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-({5-[(4-benzylpiperidin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

4-chloro-N-({5-[(4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]dec-8-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-[2-(methylanilino)-2-oxoethyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-[hydroxy(diphenyl)methyl]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(3-cyanopyrazin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[(4-{5-nitropyridin-2-yl}piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-[3-chloro-5-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-[5-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-[3-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

contol.
A 14
4-chloro-N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

methyl 5-{4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-7-(trifluoromethyl)thieno[3,2-b]pyridine-3-carboxylate;

ethyl 2-{4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-5-cyano-6-methylnicotinate;

4-chloro-N-{[5-({4-[5-cyano-4,6-bis(dimethylamino)pyridin-2-yl]piperazin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

4-chloro-N-{[5-({4-[6-methyl-2-(trifluoromethyl)quinolin-4-yl]piperazin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

tert-butyl 4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazine-1-carboxylate;

2-{4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-8-ethyl-5-oxo-5,8-dihydropyrido[2,3-d]pyrimidine-6-carboxylic acid;

7-{4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-1-ethyl-6-fluoro-4-oxo-1,4-dihydro[1,8]naphthyridine-3-carboxylic acid;

contd.
a¹⁴
7-{4-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperazin-1-yl}-1-ethyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylic acid;

4-chloro-N-[(5-{[4-(2,3-dihydro-1,4-benzodioxin-2-ylcarbonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-{[5-({4-[(2E)-3-phenylprop-2-enyl]piperazin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(3-phenylpropyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(3,4,5-trimethoxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(4-tert-butylbenzyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(4-fluorophenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2-hydroxyphenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-{[5-({4-[4-(trifluoromethyl)pyridin-2-yl]piperazin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(5-cyanopyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

contd.
Q 14

tert-butyl 1-[(5-[(4-chlorobenzoyl)amino]methyl)thien-2-yl)sulfonyl]piperidin-4-ylcarbamate;

4-chloro-N-[(5-[(4-phenylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-(piperidin-1-ylsulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(4-(1-naphthyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(4-(3,4-dichlorophenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(4-(3-(trifluoromethyl)phenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(3-hydroxy-4-(3-(trifluoromethyl)phenyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-[(4-(2-methylphenyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-[(5-[(1R,4R)-5-benzyl-2,5-diazabicyclo[2.2.1]hept-2-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

N-[(5-[(4-(benzyloxy)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

contd.
Q 14

4-chloro-N-[(5-{[4-(2-chlorodibenzo[b,f][1,4]oxazepin-11-yl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide;

N-(4-chlorophenyl)-2-(5-{[4-(2-oxo-2,3-dihydro-1H-benzimidazol-1-yl)piperidin-1-yl)sulfonyl}thien-2-yl)acetamide;

4-chloro-N-({5-[(4-hydroxypiperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-[(5-{[4-(4-acetylphenyl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(3,5-dichloropyridin-4-yl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(3-methoxyphenyl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide;

N-({5-[(4-benzyl-4-hydroxypiperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide;

N-({5-({4-[(2-tert-butyl-1H-indol-5-yl)amino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-4-chlorobenzamide;

4-chloro-N-({5-({4-[(phenylacetyl)amino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(tetrahydrofuran-2-ylcarbonyl)piperazin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide;

contd.
a 14

4-chloro-N-[(5-{[4-(6-chloropyridin-2-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(4-chlorophenyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(2H-1,2,3-benzotriazol-2-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(4-chlorobenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(4-phenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(benzyl(methyl)amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-[3-(2,4-dichlorophenyl)-1H-pyrazol-5-yl]piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(5-thien-2-yl-1H-pyrazol-3-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2,3,4,5,6-pentamethylbenzoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(phenylacetyl)-1,4-diazepan-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

contd.
A¹⁴

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(3-phenyl-1,2,4-thiadiazol-5-yl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2-phenylethyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-({5-[(4-heptylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-octylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

2-(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)-N-(4-chlorophenyl)acetamide;

2-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-2H-1,2,3-benzotriazole-5-carboxylic acid;

4-chloro-N-[(5-{[4-(5-chloro-1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

methyl 1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-5-carboxylate;

contol.
a 14

methyl 1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-6-carboxylate;

methyl 2-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-2H-1,2,3-benzotriazole-5-carboxylate;

4-chloro-N-[(5-{[4-(6-chloro-1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-{[5-({4-[5-(trifluoromethyl)-1H-1,2,3-benzotriazol-1-yl]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

N-[(5-{[4-(7-aza-1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-5-carboxylic acid;

1-{1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}-1H-1,2,3-benzotriazole-6-carboxylic acid;

N-[(5-{[4-(2-amino-9H-purin-9-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(9H-purin-9-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

contol.
Q 14

N-[(5-{[4-(6-amino-9H-purin-9-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-({5-[(4-{6-nitro-1H-benzimidazol-1-yl}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-{5-nitro-1H-benzimidazol-1-yl}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(2H-1,2,3-triazol-2-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(1H-benzimidazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-([5-({4-[3-propylanilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

4-chloro-N-([5-({4-[3-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

4-chloro-N-([5-({4-[3-(dimethylamino)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

methyl 3-({1-[(5-({4-chlorobenzoyl)amino}-methyl}thien-2-yl)sulfonyl]piperidin-4-yl)amino)-benzoate;

4-chloro-N-([5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

contd.
Q 14

4-chloro-N-({5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-[(5-{[4-(2-methoxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

3-({1-[(5-{[(4-chlorobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl)amino)benzamide;

4-chloro-N-{[5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-{2-nitro-4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-[(5-{[4-(4-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-{[5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-{[5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-chlorobenzamide;

contd.
A 14

4-chloro-N-([5-([4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-(3-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

4-chloro-N-([5-([4-(3-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-([5-([4-(3-methoxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-([5-([4-[3-(methylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-[3-[amino(imino)methyl]anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

4-chloro-N-([5-([4-[3-[(2-hydroxyethyl)sulfonyl]anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-(2-aminoanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

4-chloro-N-([5-([4-(2-hydroxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-chloro-N-([5-([4-(4-hydroxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

contd.
Q 14

4-chloro-N-({5-[(4-{3-
[(trifluoromethyl)sulfanyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-{[4-(3-toluidino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-({5-[(4-{[3-chloro-5-
(trifluoromethyl)pyridin-2-yl]amino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-({4-[3-(1,3-oxazol-5-
yl)anilino]piperidin-1-yl)sulfonyl]thien-2-
yl)methyl}benzamide;

N-[(5-({4-(3-tert-butylanilino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-({4-(2-propylanilino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-({4-[(2,2-dioxido-1,3-dihydro-2-
benzothien-5-yl)amino]piperidin-1-yl)sulfonyl]thien-2-
yl)methyl}benzamide;

4-chloro-N-[(5-({4-(2,3-dihydro-1H-inden-5-
ylamino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-({4-(4-propylanilino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-chloro-N-[(5-({4-({3-nitropyridin-2-
yl)amino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

contd.
Q 14

N-([5-([4-([3-aminopyridin-2-yl)amino]piperidin-1-yl)sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide;

N-([5-([4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl)sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide;

N-([5-([4-(3-benzylanilino)piperidin-1-yl)sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-([5-([4-(pyrimidin-2-ylamino)piperidin-1-yl)sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-[4-(morpholin-4-yl)sulfonyl)anilino]piperidin-1-yl)sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-([4-(trifluoromethyl)pyrimidin-2-yl)amino]piperidin-1-yl)sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl)sulfonyl)thien-2-yl)methyl]benzamide;

N-([5-([4-([3-([butylamino)sulfonyl]anilino)piperidin-1-yl)sulfonyl)thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-([5-([4-(3-ethylanilino)piperidin-1-yl)sulfonyl)thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl)sulfonyl)thien-2-yl)methyl]benzamide;

contol
Q14

N-([5-([4-[3-(aminosulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-([5-([4-(quinolin-5-ylamino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(quinolin-8-ylamino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-Chloro-N-([5-([4-(3-propylphenoxy)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-[(2E)-3-phenylprop-2-enoyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(4-nitrobenzoyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-([5-([4-benzoylpiperazin-1-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-([5-([4-(trifluoromethyl)benzoyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(dimethylamino)benzoyl]piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(2-fluorobenzoyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(2,6-difluorobenzoyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

contd.
Q 14

4-chloro-N-[(5-{[4-(3-fluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2-naphthoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(1-naphthoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2-nitrobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(pyridin-3-ylcarbonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(2,1,3-benzoxadiazol-5-ylcarbonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-[(5-{[4-(2,4-difluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2,4,6-trifluorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(2,6-dichlorobenzoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(heptanoyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(quinolin-8-ylsulfonyl)piperazin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

contd.
a¹⁴

4-nitro-N-({5-[(4-{3-
[(trifluoromethyl)sulfonyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

4-nitro-N-({5-[(4-{3-
[(trifluoromethyl)sulfonyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

4-nitro-N-({5-[(4-{3-
[(trifluoromethyl)sulfonyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-4-nitrobenzamide;

3-nitro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]benzamide;

contd.
A 14

3-nitro-N-([5-([4-[3-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-[3-(dimethylamino)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-3-nitrobenzamide;

3-nitro-N-([5-([4-[3-(methylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

3-nitro-N-([5-([4-[3-(methylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-[3-(aminosulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-3-nitrobenzamide;

methyl 3-([1-([5-([3-nitrobenzoyl]amino)methyl]-thien-2-yl)sulfonyl)-piperidin-4-yl]amino)benzoate;

N-([5-([4-[3-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-3-nitrobenzamide;

3-nitro-N-([5-([4-[3-nitroanilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

3-nitro-N-([5-([4-(2-methoxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

3-nitro-N-([5-([4-[2-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

contd.
a 14

3-nitro-N-({5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-[(5-{[4-(4-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

3-nitro-N-{[5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

3-nitro-N-({5-[(4-{4-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-{[5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

N-[(5-{[4-(3-propylanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

N-[(5-{[4-(3-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide;

4-nitro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-nitro-N-{[5-({4-[3-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-{[5-({4-[3-(dimethylamino)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide;

contd.
a¹⁴

4-nitro-N-[(5-{[4-(3-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-nitro-N-{[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

4-nitro-N-{[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

N-{[5-({4-[3-(aminosulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}-4-nitrobenzamide;

methyl 3-{[1-({5-[(4-nitrobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}amino}benzoate;

3-{[1-({5-[(4-nitrobenzoyl)amino]methyl}thien-2-yl)sulfonyl]piperidin-4-yl}amino}benzamide;

4-nitro-N-({5-[4-(3-nitroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl}benzamide;

4-nitro-N-[(5-{[4-(2-methoxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-nitro-N-{[5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

4-nitro-N-({5-[4-(2-nitroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl}benzamide;

contd.
Q 14

N-[(5-{[4-(4-chloroanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-[(5-{[4-(4-(trifluoromethyl)anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-nitro-N-[(5-{[4-(4-(trifluoromethyl)sulfonyl]anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(4-(aminocarbonyl)anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-(4-(1,3-dithiolan-2-yl)anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-(3-[amino(imino)methyl]anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;

N-[(5-{[4-(3-(2-hydroxyethyl)sulfonyl]anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;

N-[(5-{[4-anilinopiperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;

N-[(5-{[4-(3-(2-hydroxyethyl)sulfonyl]anilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-anilinopiperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

contd.
Q¹⁴

N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-4-nitrobenzamide;

3-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfanyl]anilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

3-nitro-N-[(5-{[4-({3-nitropyridin-2-yl)amino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-([5-({4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-yl)amino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

3-nitro-N-[(5-{[4-(2-propylanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

3-nitro-N-[(5-{[4-(4-propylanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-nitrobenzamide;

3-nitro-N-([5-({4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl}benzamide;

contd.
Q¹⁴

3-nitro-N-[(5-{[4-(2-phenylethyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-({5-[4-([3-chloro-5-(trifluoromethyl)pyridin-2-yl]amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl)-3-nitrobenzamide;

N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;

N-[(5-{[4-(3-benzylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;

3-nitro-N-{[5-({4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}benzamide;

3-nitro-N-[(5-{[4-(3-propylphenoxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

4-nitro-N-[(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-([5-({4-([3-aminopyridin-2-yl]amino)piperidin-1-yl}sulfonyl)thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-[(5-{[4-([3-nitropyridin-2-yl]amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-[(5-{[4-(2-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

contol.
Q 14

4-nitro-N-[(5-{[4-(4-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-{[5-({4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

4-nitro-N-[(5-{[4-(2-phenylethyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-({5-[4-({3-chloro-5-(trifluoromethyl)pyridin-2-yl}amino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl)-4-nitrobenzamide;

N-[(5-{[4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

N-[(5-{[4-(3-benzylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-4-nitrobenzamide;

4-nitro-N-{[5-({4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl}sulfonyl)thien-2-yl]methyl}benzamide;

N-[(5-{[4-(2-aminoanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-nitrobenzamide;

3-nitro-N-[(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

contd.
Q¹⁴

N-([5-([4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

N-([5-([4-(2-nitro-4-[(trifluoromethyl)sulfonyl]anilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-3-methoxybenzamide;

3-nitro-N-([5-([4-(3-phenylpropyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

3-nitro-N-([5-([4-([4-(trifluoromethyl)pyrimidin-2-yl)amino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-([5-([4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

N-([5-([4-(3-[(butylamino)sulfonyl]anilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)-3-nitrobenzamide;

N-([5-([4-(3-ethylanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

3-nitro-N-([5-([4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-nitro-N-([5-([4-(3-propylphenoxy)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-([5-([4-(2,4-difluorobenzoyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

N-([5-([4-(2,4-difluorobenzoyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

control.
Q 14

2-Hydroxy-N-({5-[(4-{3-
[(trifluoromethyl)sulfonyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-2-hydroxybenzamide;

N-[(5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-
1-yl)sulfonyl]thien-2-yl)methyl]-3-nitrobenzamide;

3-methoxy-N-[(5-{[4-(3-methoxyanilino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

3-methoxy-N-[(5-({4-[3-
(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl]thien-2-
yl)methyl}benzamide;

N-[(5-({4-[3-(dimethylamino)anilino]piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-{[4-(3-propylanilino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl}benzamide;

3-methoxy-N-[(5-({4-[3-
(methylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-
yl)methyl}benzamide;

3-methoxy-N-[(5-({4-[3-
(methylsulfanyl)anilino]piperidin-1-yl)sulfonyl]thien-2-
yl)methyl}benzamide;

contd.
Q14

N-{{5-({4-[3-(aminosulfonyl)anilino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide;

methyl 3-({1-[(5-[(3-methoxybenzoyl)amino]-methyl}thien-2-yl)sulfonyl]piperidin-4-yl)amino)-benzoate;

N-{{5-({4-[3-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide;

3-methoxy-N-[(5-{{4-(2-methoxyanilino)piperidin-1-yl)sulfonyl}thien-2-yl)methyl]benzamide;

N-{{5-[(4-{3-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide;

3-methoxy-N-{{5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}benzamide;

N-{{5-[(4-{2-nitroanilino}piperidin-1-yl)sulfonyl]thien-2-yl)methyl}-3-methoxybenzamide;

N-{{5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide;

N-{{5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl)sulfonyl}thien-2-yl)methyl}-3-methoxybenzamide;

N-[(5-{{4-(3-chloroanilino)piperidin-1-yl)sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N-[(5-{{4-(4-chloroanilino)piperidin-1-yl)sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

contd.
Q 14

3-methoxy-N-({5-[(4-{4-
[(trifluoromethyl)sulfonyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-({5-[(4-{3-[amino(imino)methyl]anilino}piperidin-
1-yl)sulfonyl]thien-2-yl)methyl)-3-methoxybenzamide;

N-({5-[(4-{3-[(2-
hydroxyethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]thien-2-
yl)methyl)-3-methoxybenzamide;

3-methoxy-N-({5-[(4-{3-
[(trifluoromethyl)sulfonyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-
yl)methyl)-3-methoxybenzamide;

3-methoxy-N-({5-[(4-{3-
[(trifluoromethyl)sulfanyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-[(5-[(4-(4-hydroxyanilino)piperidin-1-
yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

3-nitro-N-({5-[(4-{3-
[(trifluoromethyl)sulfanyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

4-nitro-N-({5-[(4-{3-
[(trifluoromethyl)sulfanyl]anilino}piperidin-1-
yl)sulfonyl]thien-2-yl)methyl)benzamide;

contd.
Q¹⁴

N-[(5-{[4-(2-hydroxyanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-{[4-(pyrimidin-2-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-{[5-({4-[(3-aminopyridin-2-yl)amino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-methoxybenzamide;

N-[(5-{[4-({3-nitropyridin-2-yl)amino]piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N-{[5-({4-[(2,2-dioxido-1,3-dihydro-2-benzothien-5-yl)amino]piperidin-1-yl}sulfonyl)thien-2-yl)methyl}-3-methoxybenzamide;

N-[(5-{[4-(2,3-dihydro-1H-inden-5-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-{[4-(2-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

3-methoxy-N-[(5-{[4-(4-propylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(3-tert-butylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N-({5-[4-({3-chloro-5-(trifluoromethyl)pyridin-2-yl)amino]piperidin-1-yl}sulfonyl}thien-2-yl)methyl)-3-methoxybenzamide;

contd.
Q14

3-methoxy-N-([5-([4-[3-(1,3-oxazol-5-yl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-([1,1'-biphenyl]-3-ylamino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-([5-([4-(3-propylphenoxy)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

3-methoxy-N-([5-([4-[3-(morpholin-4-ylsulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

3-methoxy-N-([5-([4-(2-phenylethyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-(3-benzylanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-([5-([4-(3-phenylpropyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

3-methoxy-N-([5-([4-([4-(trifluoromethyl)pyrimidin-2-yl]amino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide;

N-([5-([4-(3-cyclohexyl-4-hydroxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

N-([5-([4-[3-[(butylamino)sulfonyl]anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide;

contd.

Q 14

N-[(5-{[4-(3-ethylanilino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

3-methoxy-N-[(5-{[4-(5,6,7,8-tetrahydronaphthalen-1-ylamino)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]benzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-5-nitro-1H-pyrazole-3-carboxamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-oxo-1,2-dihydropyridine-3-carboxamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-2-thioxo-1,2-dihydropyridine-3-carboxamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3,4-dihydroxybenzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]pyridine-2-carboxamide;

N-[(5-{[4-(hexyloxy)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

N-[(5-{[4-(heptanoyl)piperidin-1-yl]sulfonyl}thien-2-yl)methyl]-3-methoxybenzamide;

4-chloro-N-[(5-{[4-(3-propylanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

contd.
Q 14

4-chloro-N-[(5-{[4-(3-chloroanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N-[(5-{[4-(3-methoxyanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N-{[5-({4-[3-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}benzamide;

4-chloro-N-{[5-({4-[3-(dimethylamino)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}benzamide;

4-chloro-N-{[5-({4-[3-(methylsulfonyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}benzamide;

4-chloro-N-{[5-({4-[3-(methylsulfanyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}benzamide;

N-{[5-({4-[3-(aminosulfonyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}-4-chlorobenzamide;

methyl 3-({1-[(5-{[(4-chlorobenzoyl)amino]methyl}-2-furyl)sulfonyl]piperidin-4-yl}amino)benzoate;

3-({1-[(5-{[(4-chlorobenzoyl)amino]methyl}-2-furyl)sulfonyl]piperidin-4-yl}amino)benzamide;

4-chloro-N-({5-[4-{3-nitroanilino}piperidin-1-yl]sulfonyl}-2-furyl)methyl}benzamide;

contd.
Q14

4-chloro-N-[(5-{[4-(2-methoxyanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N-{[5-({4-[2-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}benzamide;

4-chloro-N-({5-[4-(2-nitroanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl)benzamide;

4-chloro-N-[(5-{[4-(4-chloroanilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl]benzamide;

4-chloro-N-{[5-({4-[4-(trifluoromethyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}benzamide;

4-chloro-N-({5-[4-(4-[(trifluoromethyl)sulfonyl]anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl)benzamide;

N-{[5-({4-[4-(aminocarbonyl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}-4-chlorobenzamide;

4-chloro-N-{[5-({4-[4-(1,3-dithiolan-2-yl)anilino]piperidin-1-yl}sulfonyl)-2-furyl]methyl}benzamide;

N-({5-[4-(3-[amino(imino)methyl]anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl)-4-chlorobenzamide;

4-chloro-N-({5-[4-(3-[(trifluoromethyl)sulfonyl]anilino)piperidin-1-yl]sulfonyl}-2-furyl)methyl)benzamide;

contd.
Q14

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]-2-furyl)methyl)-4-chlorobenzamide;

4-nitro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}piperidin-1-yl)sulfonyl]-2-furyl)methyl)benzamide;

4-chloro-N-({5-[(3-{3-[(trifluoromethyl)sulfonyl]anilino}pyrrolidin-1-yl)sulfonyl]thien-2-yl)methyl)benzamide; and

4-chloro-N-({5-[(4-{3-[(trifluoromethyl)sulfonyl]anilino}azepan-1-yl)sulfonyl]thien-2-yl)methyl)benzamide.

12 (Original). A sulfonamide derivative according to claim 11, which is selected from the group consisting of:

4-chloro-N-[(5-{[4-(2,4-difluorobenzoyl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-[(5-{[4-(phenylacetyl)-1,4-diazepan-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-({5-[(4-anilinopiperidin-1-yl)sulfonyl]thien-2-yl)methyl)-4-chlorobenzamide;

N-[(5-{[4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

N-[(5-{[4-(1H-benzimidazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

control-
Q 14

4-chloro-N-([5-([4-[3-propylanilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-(4-chloroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-chloro-N-([5-([4-[3-[(2-hydroxyethyl)sulfonyl]anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

N-([5-([4-[3-(aminosulfonyl)anilino]piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-4-chlorobenzamide;

4-chloro-N-([5-([4-(1-naphthoyl)piperazin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

4-nitro-N-([5-([4-(3-methoxyanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]benzamide;

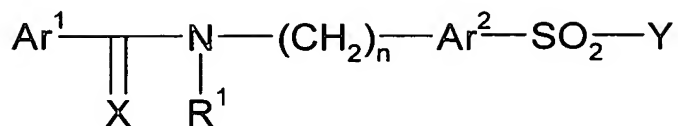
methyl 3-([1-([5-([4-nitrobenzoyl]amino)methyl]thien-2-yl)sulfonyl]piperidin-4-yl)amino)benzoate;

N-([5-([4-(1H-1,2,3-benzotriazol-1-yl)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-2-hydroxybenzamide; and

N-([5-([4-(2-nitroanilino)piperidin-1-yl)sulfonyl]thien-2-yl)methyl]-3-methoxybenzamide.

13 (Currently Amended). Use A method for the modulation of the JNK pathway, comprising administering an effective amount of a sulfonamide derivative according to formula I

contd.
Q14



I

wherein Ar¹ and Ar² are independently from each other substituted or unsubstituted aryl or heteroaryl groups;

X is O or S, preferably O;

R¹ is hydrogen or a C₁-C₆-alkyl group, or R¹ forms a substituted or unsubstituted 5-6-membered saturated or unsaturated ring with Ar¹;

n is an integer from 0 to 5, preferably between 1-3 and most preferred 1;

Y within formula I is an unsubstituted or a substituted 4-12-membered saturated cyclic or bicyclic alkyl containing at least one nitrogen atom, whereby one nitrogen atom within said ring is forming a bond with the sulfonyl group of formula I thus providing a sulfonamide,

~~for the preparation of a pharmaceutical composition for the modulation of the JNK pathway.~~

14 (Currently Amended). ~~Use~~ A method according to claim 13 for the treatment or prevention of disorders associated with the abnormal expression or activity of JNK.

15 (Currently Amended). A method ~~Use~~ according to claim 14 for the treatment or prevention of disorders associated with abnormal expression or activity of JNK2 and/or

3.

contd.
Q 14

16 (Currently Amended). ~~Use of sulfonamides according to formula I in particular according to any of claims 13 to 15~~ A method in accordance with claim 13 for the treatment of neuronal disorders including epilepsy, Alzheimer's disease, Huntington's disease, Parkinson's disease, retinal diseases, spinal cord injury, head trauma comprising administering an effective amount of sulfonamide derivative according to said formula I.

17 (Currently Amended). ~~Use of sulfonamides according to formula I in particular according to any of claims 13 to 15~~ A method in accordance with claim 13 for the treatment of autoimmune diseases including Multiple Sclerosis, inflammatory bowel disease (IBD), rheumatoid arthritis, asthma, septic shock, transplant rejection comprising administering an effective amount of sulfonamide derivative according to said formula I.

18 (Currently Amended). ~~Use of sulfonamides according to formula I in particular according to any of claims 13 to 15~~ A method in accordance with claim 13 for the treatment of cancer including breast, colorectal, pancreatic cancer comprising administering an effective amount of sulfonamide derivative according to said formula I.

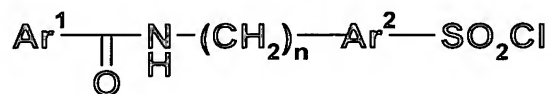
19 (Currently Amended). ~~Use of sulfonamides according to formula I in particular according to any of~~

contd.
Q 14

~~claims 13 to 15~~ A method in accordance with claim 13 for the treatment of cardiovascular diseases comprising administering an effective amount of sulfonamide derivative according to said formula I~~including stroke, arterosclerosis, myocordial infarction, myocordial reperfusion injury.~~

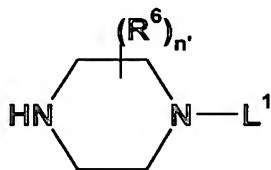
20 (Currently Amended). A pharmaceutical composition containing at least one sulfonamide derivative according to ~~any of the claims 2 to 12~~ claim 2 and a pharmaceutically acceptable carrier, diluent or excipient thereof.

21 (Currently Amended). Process for the preparation of a sulfonamide derivative according to ~~any of claims 1 to 12~~ claim 1, wherein ~~comprising reacting~~ a sulfonyl chloride V

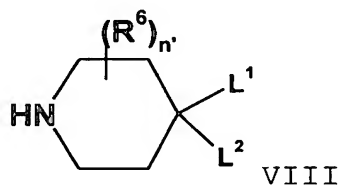


V

~~is reacted~~ with an amine VII or VIII



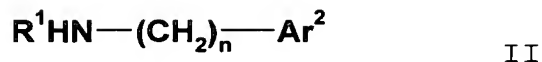
VII or



whereby $(\text{R}^6)_n$, L^1 and L^2 are as above defined.

22 (Currently Amended). A process according to claim 21, wherein ~~a said~~ sulfonyl chloride V is ~~obtainable~~ obtained by

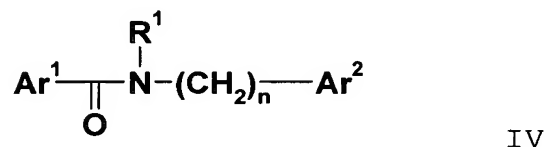
a) coupling an amine of formula II:



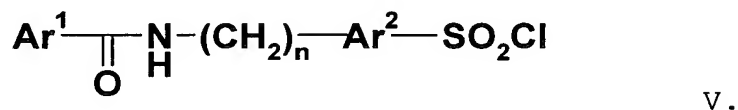
where Ar^2 and R^1 are as defined above, with an acyl chloride of formula III:



where Ar^1 is as defined above, to provide an amide of formula IV:



b) sulfonating the amide of formula IV to provide a sulfonyl chloride V



23 (New). A method in accordance with claim 16, wherein said neuronal disorder is selected from the group consisting of epilepsy, Alzheimer's disease, Huntington's disease, Parkinson's disease, retinal diseases, spinal cord injury, and head trauma.

24 (New). A method in accordance with claim 17, wherein said autoimmune disease is selected from the group consisting of multiple sclerosis, inflammatory bowel disease (IBD), rheumatoid arthritis, asthma, septic shock, and transplant rejection.

contd.
Q¹⁴

25 (New). A method in accordance with claim 18, wherein said cancer is selected from the group consisting of breast-, colorectal-, and pancreatic cancer.

26 (New). A method in accordance with claim 19, wherein said cardiovascular disease is selected from the group consisting of stroke, arteriosclerosis, myocardial infarction, and myocardial reperfusion injury.
